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DOCUMENT CLASSIFICATION BARCODE SHEET



# 371 Application As-Filed

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FORM PTO-1590 (REV. 12-2001)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTORNEY'S DOCKET NUMBER	
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371		98078-88006		U.S. APPLICATION NO. (if known, see 37 CFR 1.5)	
INTERNATIONAL APPLICATION NO. PCT/KR00/01028		14 September 2000		10/088289	
TITLE OF INVENTION HEALTH CARE SYSTEM AND METHOD THEREOF		16 September 1999		PRIORITY DATE CLAIMED	
APPLICANT(S) FOR DO/EO/US SEO, Young, Don					

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

- ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
- ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
- ☐ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
- ☒ The US has been elected by the expiration of 19 months from the priority date (Article 31).
- ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - ☐ is attached hereto (required only if not communicated by the International Bureau).
  - ☒ has been communicated by the International Bureau.
  - ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
- ☒ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
  - ☒ is attached hereto.
  - ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
- ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
  - ☐ are attached hereto (required only if not communicated by the International Bureau).
  - ☒ have been communicated by the International Bureau.
  - ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - ☐ have not been made and will not be made.
- ☒ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).
- ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
- ☒ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

**Items 11 to 20 below concern document(s) or information included:**

- ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
- ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
- ☐ A FIRST preliminary amendment.
- ☐ A SECOND or SUBSEQUENT preliminary amendment.
- ☐ A substitute specification.
- ☒ A change of power of attorney and/or address letter.
- ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.
- ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
- ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
- ☐ Other items or information:

U.S. APPLICATION NO. (if known, see 37 CFR 1.53) <b>10/088289</b>	INTERNATIONAL APPLICATION NO. PCT/KR00/01028	ATTORNEY'S DOCKET NUMBER 98078-88006
CALCULATIONS PTO USE ONLY		
21. <input checked="" type="checkbox"/> The following fees are submitted: <b>BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (S)):</b> Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO. . . . . <b>\$1040.00</b> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO. . . . . <b>\$890.00</b> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO. . . . . <b>\$740.00</b> International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4). . . . . <b>\$710.00</b> International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4). . . . . <b>\$100.00</b> <b>ENTER APPROPRIATE BASIC FEE AMOUNT = \$1040.00</b>		
Surcharge of \$130.00 for furnishing the oath or declaration later than months from the earliest claimed priority date (37 CFR 1.492(e)). <input type="checkbox"/> 20 <input type="checkbox"/> 30		
<b>CLAIMS</b> Total claims 17 - 20 = 0 Independent claims 6 - 3 = 3	<b>NUMBER FILED</b> NUMBER EXTRA 0 3	<b>RATE</b> x \$18.00 x \$84.00 + \$280.00 <b>TOTAL OF ABOVE CALCULATIONS = \$1292.00</b>
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.		
Processing fee of \$130.00 for furnishing the English translation later than months from the earliest claimed priority date (37 CFR 1.492(f)). <input type="checkbox"/> 20 <input type="checkbox"/> 30		
<b>TOTAL NATIONAL FEE = \$646.00</b>		
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +		
<b>TOTAL FEES ENCLOSED = \$646.00</b>		
Amount to be refunded: \$		
charged: \$		

a. ☒ A check in the amount of \$ **646.00** to cover the above fees is enclosed.

b. ☐ Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ to cover the above fees.  
 A duplicate copy of this sheet is enclosed.

c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. **07-1985**. A duplicate copy of this sheet is enclosed.

d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card information should not be included on this form.** Provide credit card information and authorization on PTO-2038.

**NOTE:** Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

SIGNATURE

NAME Ari M. Bai

REGISTRATION NUMBER 38,726

10/088289  
PTO/PCT Rec'd 14 MAR 2002

## HEALTH CARE SYSTEM AND METHOD THEREOF

## BACKGROUND OF THE INVENTION

(a) Field of the Invention

The present invention relates to a health management system and a health management method for a user to effectively control his weight via a professional doctor's prescription.

## (b) Description of the Related Art

In response to the lifestyle changes and complications of society, various diseases of adult people have been induced and interest in health issues has increased. In particular, interest in people's weight has become connected to beauty and adult diseases, and various products have been developed to deal with this.

However, most related art health management devices simply compute and inform a user of obesity, a normal weight, an encouraged caloric intake per day for an ideal body weight, or calories consumed in a day, or inform the user of a weight change determined by deducting his caloric consumption from his caloric intake.

Therefore, the related art health management devices have problems in that it is impossible to provide information on the way to reach a desired weight, or consider a personal clinical history or dietary habits.

Further, the related art health management devices have a disadvantage in that it is difficult to effectively control a weight since an encouraged caloric consumption per day with relation to an encouraged caloric

intake per day is not suggested.

Furthermore, the related art healing management devices have the disadvantage in that it is impossible to receive a professional doctor's advice required for weight control as frequently as desired.

5

#### SUMMARY OF THE INVENTION

Accordingly, the present invention is directed to an apparatus and method for format converting a video that substantially obviates one or more of the problems due to limitations and disadvantages of the related art.

10 In view of the prior art described above, it is an object of the present invention to provide a health management device which includes a data transmission and receiving element, so that a professional doctor analyzes personal data such as personal clinic history and dietary habits, caloric intake and caloric consumption, and body data of a user and suggests a prescription  
15 for encouraged caloric intake and consumption per day as well as content of activity for the caloric consumption by means of the data, and the user can input his food intake and activity contents and receive prescriptions of the doctor at any time.

20 It is another object of the invention to provide a health management system and a health management method which have medical professionalism, mobility and convenience so that adult diseases due to the lack of nutrients or worse caused by inappropriate dietary habits for weight control, overeating of food and lack of exercise may be prevented and beauty may be promoted by controlling weight and managing health effectively.



performed by the control part, and an output part for outputting a result of the process performed by the control part, a health management method includes the steps of inputting basic data, selecting functions, computing a total caloric consumption in a day, computing a total caloric intake in a day, outputting a current weight status, recognizing a desired weight, and estimating a weight after a predetermined period or a period to reach the desired weight.

The step of inputting basic data is carried out by storing the basic data input in the input part by a user.

The step of selecting functions is carried out by selecting a function to be used by the user from all functions provided and performed by the health management device.

The step of computing total caloric consumption in a day is carried out by performing a function for computing total consumed calories by activity in a day and remaining encouraged caloric consumption on the basis of the basic data.

The step of computing total caloric intake in a day is carried out by computing total calories taken in a day and remaining encouraged caloric intake on the basis of the basic data.

The step of outputting a current weight status is carried out by outputting a current weight status on the basis of the basic data in the function selected by the user.

The step of recognizing a desired weight is carried out for suggesting a prescription for a procedure to reach the desired weight.

The step of estimating a weight change is a step for performing a





the analysis of the basic data and the assessment of the desired body data of the database server by the network.

According to the first embodiment of the present invention, in a health management device including an input part, a control part, a memory part, an output part, a data conversion device and a data transmitting and receiving device, and having functions to transmit basic data and desired body data of a user and to output a prescription of a doctor who receives the basic data and the desired body data, a health management method includes the steps of connecting the database server to the health management device via a network, storing analysis data of the basic data and assessment data of the desired body data transmitted by the health management device in the database server, and transmitting a prescription of a doctor who inspects the analysis data of the basic data and the assessment data of the desired body data to the health management device via the network.

In a health management device including an input part for inputting basic data, a control part for analyzing the basic data and assessing the desired body data, a memory part for storing the basic data and software and data required for the process to be performed by the control part, and an output part for outputting a result of the process performed by the control part, a data conversion device and a wireless transmitting and receiving device, a health management system according to a second embodiment of the present invention includes a base station, a base station control part, a network switch and a database server.

The base station is wirelessly connected to the health management

device by using multi-connection communications techniques and protocol to wirelessly connect the health management device to a database server.

The base station control part manages communications frequencies between the health management device and the base station for monitoring and controlling the base station.

The database server stores information on the installation, management and repair, and connection attestation in the wireless communications connection with the health management device, and transmits prescription data of a doctor to the health management device according to the basic data of a user by being connected to the health management device via the base station.

The network switch connects the base station control part to the database server.

Wherein the database server may also analyze the basic data of the user and assess the desired body data on the basis of the basic data instead of the health management device.

In a health management device including an input part, a control part, a memory part, an output part, a data conversion device and a data transmitting and receiving device, and having functions to transmit basic data and desired body data of a user and to output a prescription of a doctor who receives the basic data and the desired body data, a health management method according to a second embodiment of the present invention includes the steps of wirelessly connecting a base station to the health management device by using multi-connection communications techniques and protocol, storing analysis and assessment of the basic data and the desired body data in a database server,

and transmitting prescription data of the database server, that is, the inspected analysis and assessment of the basic data and the desired body data, to the health management device via the database server, a network switch, a base station control part and the base station.

5           Wherein, in the health management device including an input part, a control part, a memory part, an output part, a data conversion device and a data transmitting and receiving device, and having functions to transmit basic data and desired body data of a user and to output a prescription of a doctor who receives the basic data and the desired body data, the health management method according to the second embodiment of the present invention may 10 includes the steps of wirelessly connecting a base station to the health management device by using multi-connection communications techniques and protocol, storing the analysis and assessment of the basic data and the desired body data in the database server, storing analysis and assessment results of 15 the basic data and the desired body data performed by the database server in the database server, and transmitting prescription data of a doctor who inspects the analysis and assessment results stored in the database server to the health management device via the database server, a network switch, a base station control part and the base station.

20           Both the foregoing general description and the following Detailed Description are exemplary and are intended to provide further explanation of the invention as claimed.

**BRIEF DESCRIPTION OF THE DRAWINGS**

The accompanying drawings provide a further understanding of the invention and, together with the detailed description, explain the principles of the invention. In the drawings:

5 Fig. 1 is a block diagram of a health management device according to the present invention;

Fig. 2 is a flow chart for explaining a health management method according to the present invention;

10 Fig. 3 is a flow chart for explaining a health management system according to a first embodiment of the present invention;

Fig. 4 is a flow chart for explaining a health management method of the health management system according to the first embodiment of the present invention;

15 Fig. 5 is a block diagram showing a health management system according to a second embodiment of the present invention; and

Fig. 6 is a flow chart showing a health management method of the health management system according to the second embodiment of the present invention.

20 **DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS**

The present invention will be described in detail with reference to the accompanying drawings.

Fig. 1 is a block diagram showing a health management device

according to the present invention.

Referring to Fig. 1, a health management system 100 according to the present invention includes an input part 110, a control part 120, a memory part 130 and an output part 140.

The input part 110 is to input personal data of a user, body data, current clinical history and habits, kind and amount of food taken by the user, and activity contents. The personal data of the user means the date of birth and the distinction of sex, and the body data means height, weight, waist size, hip size and activity degree regarded as factors for computing an encouraged caloric intake per day according to the routine activity of the user.

The control part 120 provides a caloric intake per day, distribution of nutrients, and an encouraged caloric intake per day, computes an ideal body weight, a body mass index and a waist/hip circumference ratio on the basis of past and present body data and a desired body data, analyzes a transition of body data of the user, and computes encouraged caloric intake and consumption per day according to the activity of the user.

A prescription for the health of the user on the basis of above includes amount and kind of food, and time and content of activity for controlling excessive or insufficient calorie amounts.

20           The memory part 130 stores the input content of the input part 110, and  
software and data required for the process to be performed by the control part  
120.

The output part 140 outputs contents input by the user, and a result of the process performed by the control part 120 visually and aurally.

Fig. 2 is a flow chart showing a health management method according to the present invention.

As shown in Fig. 2, a health management method according to the present invention includes the steps of inputting basic data S100, selecting functions S200, computing total calories taken in a day S300, computing total calories consumed in a day S400, recognizing a current weight S500, recognizing a desired weight S600, and simulating a future weight S700.

In step S100, a user inputs personal data such as the date of birth and the distinction of sex, kind and amount of food taken by the user, activity contents per day, body data and current clinical history, pregnancy and nursing status, and dietary habits in the input part 110 and the above data is stored in a memory part 130.

At this time, the body data indicates past and present body data such as height, weight, waist size, hip size and activity degree together with respective data measuring dates.

An amount of activity per day means content and hours of activities taken in a day by the user. In the present invention, the activity content is organized by eating, reading newspapers, talking, driving a car, watching TV, office work and sleeping, wherein other various activities may be added.

In step S200, the user selects a function to use out of various functions provided by the health management device 100.

In step S300, total caloric intake of the user is computed on the basis of the basic data input in step S100, wherein total calories and nutrients taken in a day are analyzed in step S305, and the total calories and nutrients taken in a













device 100' to the health management device 100' by the network 310.

If any new items are generated, the database server 300 transmits the new items to the health management device 100' for the update of the memory content of the health management device 100'.

The network 310 connects the health management device 100' to the database server 300 and performs arbitration of the data transmission between the health management device 100' and the database server 300.

Fig. 4 is a flow chart for explaining a health management method according to the health management system of the first embodiment of the present invention.

As shown in Fig. 4, the health management method of the health management system according to the first embodiment of the present invention includes the steps of connecting the network in step S805, storing data of the health management device in the database server in step S810, and transmitting a prescription of a doctor to the health management device in step S820.

In the network connection step S805, the health management device 100' is connected to the database server 300 by the network 310.

In the database storing step S810, the analysis data of the basic data and assessment data of the desired body data of the health management device are stored not only in the memory part of the health management device 100' but also in the database server 300 for the inspection of a doctor in charge of the user.

In the prescription suggestion step S815, the doctor suggests a

prescription appropriate for the characteristics of the user after inspecting the user's clinical history, dietary habits and degree to how much the user reaches the desired body by reviewing the analysis data of the basic data and the assessment data of the desired body data of the health management device. As the suggested prescription of the doctor is stored in the database server 300, the database server 300 transmits the suggested prescription of the doctor to the health management device 100' by the network 310, so that the memory content of the health management device 100' is updated.

In the prescription output step S820, the health management device 100' having received the doctors prescription, outputs a basic prescription stored in the memory part of the health management device 100' and the prescription received from the doctor simultaneously.

Fig. 5 is a block diagram showing a health management system according to a second embodiment of the present invention. As shown in Fig. 5, the health management system according to the second embodiment of the present invention includes a health management device 100", a base station 510, a base station control part 530, a network switch 550 and a database server 570.

The health management device 100" includes the components of the health management system 100 as shown in Fig. 1, and performs the basic function thereof. The health management device 100" further includes a data converting device (not shown) and a wireless data transmitting and receiving device (not shown) and may be connected to the database server by the base station 510, the base station control part 530, and the network switch 570.









WHAT IS CLAIMED IS:

1. A health management device, comprising:  
an input part for inputting basic data of a user;  
a control part for computing an ideal body weight, a body mass index and an waist/hip circumference ratio on the basis of the basic data, suggesting a prescription by computing an encouraged caloric intake per day, distribution of respective nutrients and an encouraged caloric consumption per day;  
a memory part for storing the input content of the input part, and software and data required for the processing to be performed by the control part; and  
an output part for outputting the basic data and a result of the processing performed by the control part.
2. A health management device of claim 1, wherein the basic data includes personal data including the distinction of sex and date of birth, body data, current clinical history and habits, kind and amount of food taken by the user, and content and hour of activities undertaken by the user.
3. A health management device of claim 1, wherein the control part suggests a prescription of an amount of one or more food each other and time of activity on a remaining intake calories and respective nutrients and consumption calories by analyzing the calories and respective nutrients already taken in and consumed by the user by a predetermined time point in a day when the user inputs desired food or activity contents.
4. A health management device of claim 2, wherein the body data includes past body data, current body data, desired body data, height, weight,

waist size, hip size and a routine activity degree as factors for computing encouraged calories per day.

5. In a health management device including an input part for inputting basic data, a control part for suggesting a prescription on the basis of the basic data, a memory part for storing the basic data and software and data required for the process to be performed by the control part, and an output part for outputting a result of the process performed by the control part, a health management method comprising the steps of:

storing the basic data input in the input part by a user;

user;

providing functions of the health management device selected by the

computing total calories taken in a day;

performing a function for computing total calories consumed by activities in a day on the basis of the basic data;

performing a function for outputting a current weight status on the basis of the basic data;

performing a function for assessing a current weight level with relation to a desired weight or an ideal body weight respectively set by the user and assessing how much the current weight reaches the desired weight or the ideal body weight;

estimating a weight of the user after a predetermined time period on the basis of the caloric intake per day and the caloric consumption per day from a predetermined time point in the past to the present; and

estimating a controllable weight from the present to a desired period or a





outputting a period to reach an estimation weight in the present state, if the user inputs a desired weight for performing a fourth simulation step.

10. In a health management device including an input part for inputting basic data, a control part for suggesting a prescription on the basis of the basic data, a memory part for storing the basic data and software and data required for the process to be performed by the control part, an output part for outputting a result of the process performed by the control part, a data conversion device and a data transmitting and receiving device using at least wire or wireless cable, a health management system comprising:

a network for transmitting data output from the health management device; and

a database server for storing the data transmitted via the network and transmitting a prescription of a doctor suggested on the basis of the stored data to the health management device via the network.

11. A health management system of claim 10, wherein the database server has functions for analyzing the basic data, assessing desired body data on the basis of the basic data, and storing the result of the analysis and the assessment to transfer a prescription of a doctor to the health management device.

12. In a health management device including an input part, a control part, a memory part, an output part a data conversion device and a data transmitting and receiving device, and having functions to analyze basic data and assess desired body data on the basis of the basic data and desired body data of a user for directly suggesting a prescription, to update the memory content

according to the content of transmission of a database server, to transmit the analysis data, assessment data and the prescription performed by the health management device to the database server according to the requirement of the user, and to output a prescription of a doctor transmitted via the database server, a health management method comprising the steps of:

connecting the database server to the health management device via a network;

storing the analysis data of the basic data, the assessment data of the desired body data, and the prescription data of the health management device transmitted from the health management device; and

transmitting a prescription of a doctor who inspects the analysis data of the basic data, the assessment data of the desired body data, and the prescription data of the health management device by the database server to the health management device, when suggesting the prescription or updating the memory content of the health management device.

13. In the health management device including an input part, a control part, a memory part, an output part, a data conversion device and a data transmitting and receiving device for transmitting basic data and desired body data of a user and outputting a prescription of a doctor who reviews the data, a health management method of claim 12, comprising the steps of:

connecting the database server to the health management device via a network;

storing analysis data of the basic data and the desired body data transmitted from the health management device; and



storing analysis and assessment of the basic data and the desired body data in the database server for transmitting prescription data of a doctor who inspects the stored data to the health management device, when suggesting the prescription or updating the memory content of the health management device

14. In a health management device including an input part for inputting basic data, a control part for analyzing the basic data and assessing the desired body data, a memory part for storing the basic data and software and data required for the process to be performed by the control part, an output part for outputting a result of the process performed by the control part, and a data conversion device and a wireless transmitting and receiving device, a health management system comprising:

a base station for connecting to the health management device by using multi-connection communications techniques and protocol to wirelessly connect the health management device to a database server;

a base station control part for managing communications frequencies between the health management device and the base station for monitoring and controlling the base station;

the database server for storing information on the installation, management, repair, and connection attestation in the wireless communications connection with the health management device, and transmitting prescription data of a doctor according to the user's basic data to the health management device by being connected to the health management device via the base station; and

a network switch for connecting the base station control part to the



database server.

15. A health management system of claim 14, further comprising the functions of analyzing and assessing the basic data and the desired body data on the basis of the basic data of the user and storing the result of the analysis and the assessment, wherein the prescription of a doctor is transmitted to the health management device.

16. In a health management device including an input part, a control part, a memory part, an output part, a data conversion device and a data transmitting and receiving device, and having functions to analyze basic data and assess desired body data on the basis of the basic data and desired body data of a user for directly suggesting a prescription, to update the memory content according to the content of transmission of a database server, to transmit the analysis data, assessment data and the prescription performed by the health management device to the database server according to the requirements of the user, and to output a prescription of a doctor transmitted via the database server, a health management method comprising the steps of:

connecting the database server to the health management device via a network;

storing analysis data of the basic data, assessment data of the desired body data, and prescription data of the health management device transmitted from the health management device; and

inspecting the analysis data of the basic data, the assessment data of the desired body data, and the prescription data of the health management device in the database server for transmitting prescription data of a doctor or

the memory content of the health management device to the health management device;

transmitting a prescription of a doctor who inspects the analysis data of the basic data, the assessment data of the desired body data, and the prescription data of the health management device to the health management device via the database server, a network switch, a base station control part and a base station, when suggesting the prescription or updating the memory content of the health management device.

17. In the health management device including an input part, a control part, a memory part, an output part, a data conversion device and a data transmitting and receiving device for transmitting basic data and desired body data of a user and outputting a prescription of a doctor who reviews the transmitted data, a health management method of claim 16, comprising the steps of:

wirelessly connecting the base station to the health management device by using multi-connection communications techniques and protocols;

storing the transmitted basic data and the desired body data in the database server; and

performing analysis and assessment of the stored basic data and the desired body data by the database server, storing the analysis and assessment results performed by the database server, and transmitting prescription data of a doctor who inspects the analysis and assessment results of the database server to the health management device via the database server, the network switch, the base station control part and the base station, when suggesting the

**prescription or updating the memory content of the health management device.**

### ABSTRACT OF THE DISCLOSURE

A health management system includes a health management device having an input part for inputting basic data, a control part for analyzing the basic data and assessing desired body data on the basis of the basic data, a memory part for storing the basic data, and software and data required for the process to be performed by the control part, an output part for outputting a result of the process performed by the control part, a data conversion device, a data transmitting and receiving device, a network for transmitting data output from the health management device and a database server for storing, analyzing and assessing the data transmitted via the network from the health management device. Further, the database server transmits a prescription of a professional doctor who inspects the data analysis and assessment to the health management device via the network. If a user inputs his body data and food intake or activity contents in the health management device, the health management device analyzes and assesses the input items and provides prescriptions for the current body data, desired body data and health management data directly to the user or via the database server together with the prescription of the doctor, thereby achieving effective weight control and health management.

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FIG.1

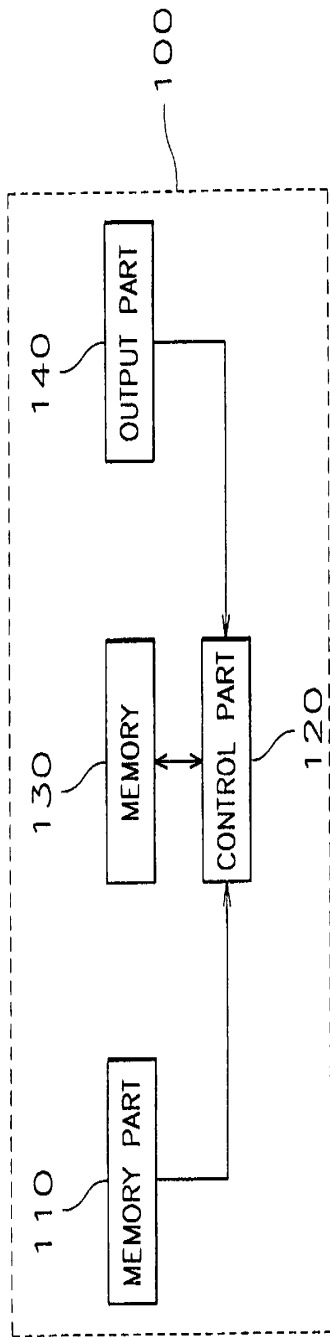


FIG.3

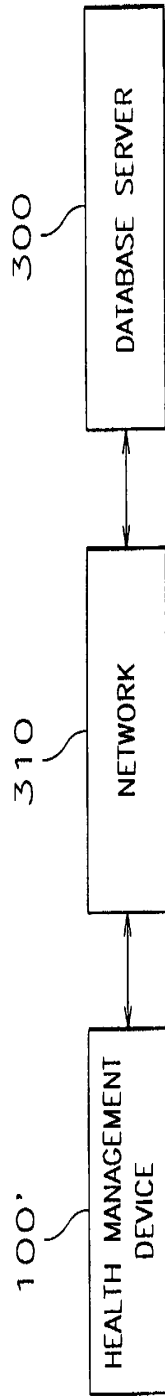
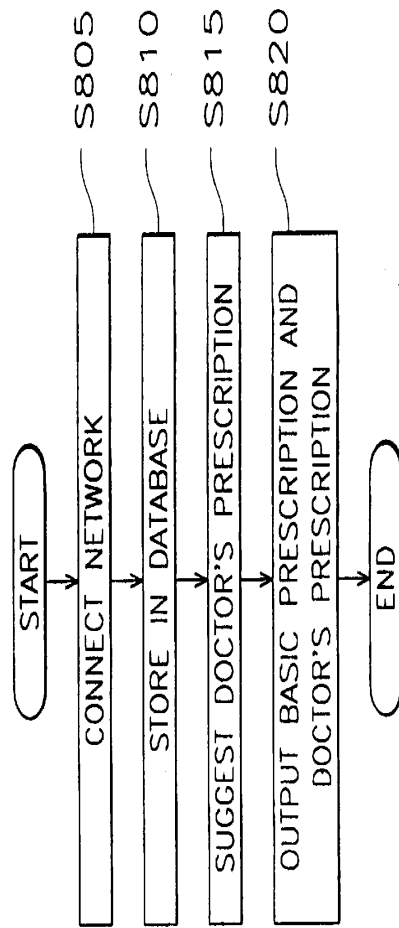


FIG.4





3/4

FIG. 5

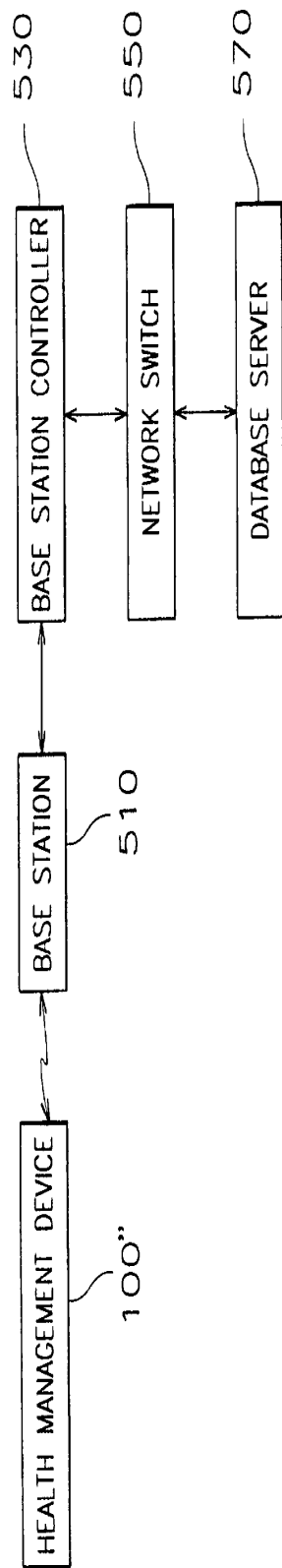
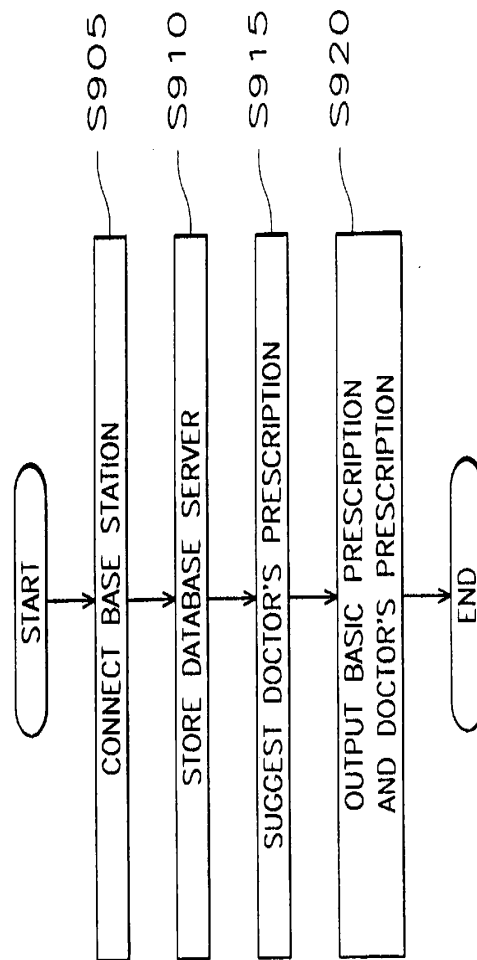
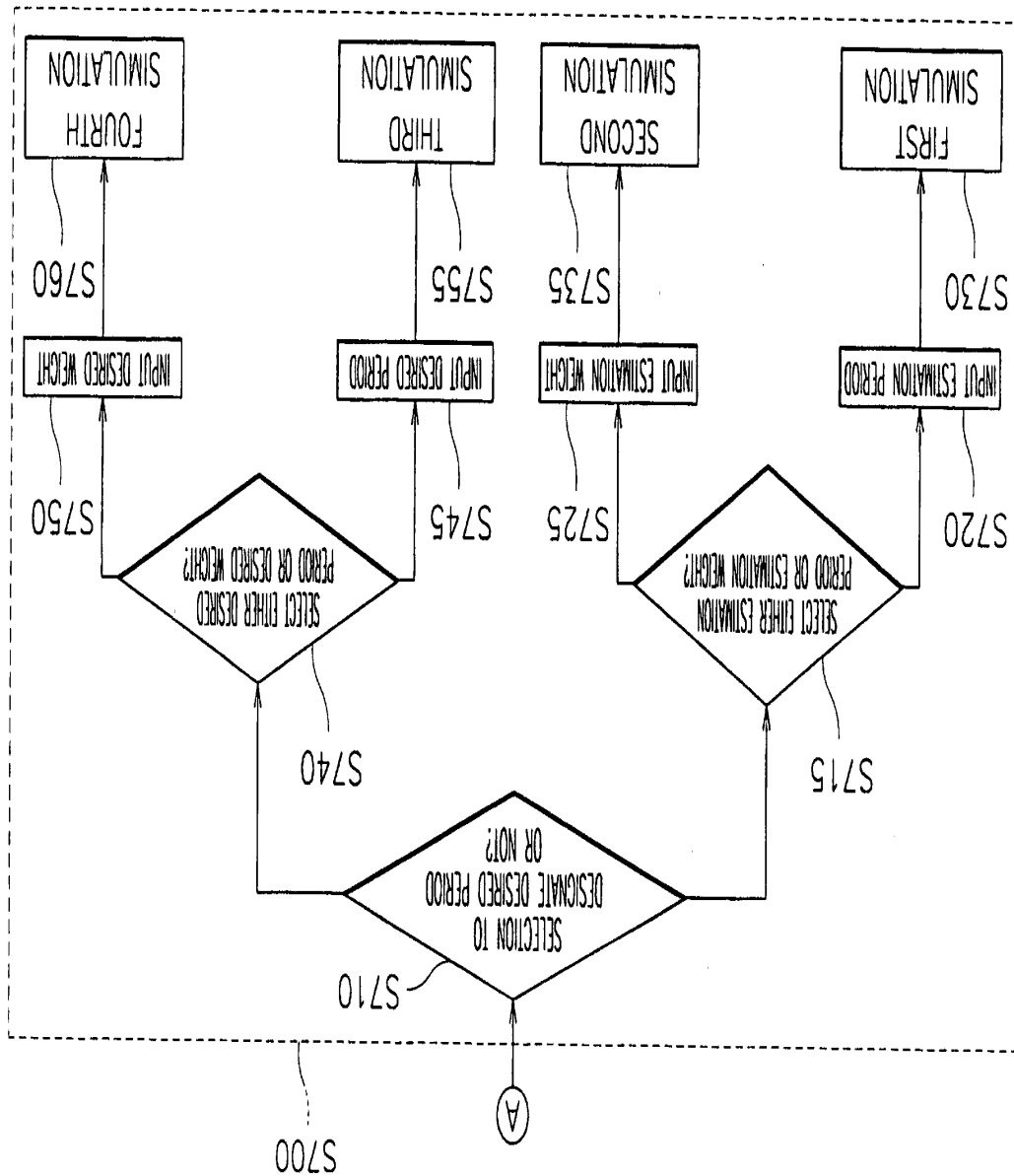


FIG. 6







Declaration and Power of Attorney for Patent Application

특허 출원 관련 선언 및 위임권

Korean Language Declaration

아래 지명된 발명자로서, 본인은 하기 사항을 선언합니다.

본인의 거주지, 우송 주소 및 국적은 본인의 성명 아래에 기재된 것과 동일합니다.

본인은 하기 명시된 발명에 대한 독자를 청구하는 주체의 최초 원리 단독 발명자이거나 (아래에 한 이등권이 기재된 경우) 또는 최초 원리 공동 발명자임을 (아래에 여러 이름이 기재된 경우) 확인합니다.

더욱 남기 제정되어 있지 않으면 본 발명의 명세서가 여기에 첨부됩니다.

☐ 미합중국 공민번호 또는 PCT 국제 공민번호는 \_\_\_\_\_로 \_\_\_\_\_일에 출원되었고 \_\_\_\_\_일에 제정되었음 (여당 경우).

본인은 상기 제정에 의해 수정된 상기 명세서는 물론 특허 청구의 내용을 검사했으며 이해했음을 확인합니다.

본인은 연방 규정 코드인 제37조의 제1.56항에 의거하여 특허 자각에 관한 정보 공개할 의무를 인정합니다.

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

HEALTH CARE SYSTEM AND METHOD  
THEREOF

the specification of which is attached hereto unless the following box is checked:

☐ was filed on PCT/KR00/01028 as United States Application Number 14/09/00 or PCT International Application Number 14/09/00 and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

# Korean Language Declaration

본인은 외국인 특허 출원(들)이나 발명자의 출원서 관련 경우에는 미합중국  
고드인 제35 장의 제17.9(a)-(d)항이나 제365(b)항에 의거하여 또는  
미합중국 이외에 특허를 취득한 국가를 지정하는 PCT 국제 출원의 경우 또는  
제365(a)항에 의거하여 자기 명사된 특허 출원의 외국 우선권을  
주장하며, 외국인 특허 출원, 발명자 출원서 또는 우선권이 주장되는  
출원일 이전에 제출된 PCT 국제 출원도 또한 여기에 해당함을  
제고 함으로서 확인하였습니다.

99-39735  
(Number)  
(번호)

Korea  
(Country)  
(국가)

(Number)  
(번호)

(Country)  
(국가)

본인은 미합중국 고드인 제35 장 제119항(c)에 명시된 바와 같이 자기  
미합중국 가출원에 관련된 출원을 요구합니다.

(Application No.)  
(출원 번호)

(Filing Date)  
(출원일자)

(Application No.)  
(출원 번호)

(Filing Date)  
(출원일자)

본인은 미합중국 고드인 제35 장의 미국인 출원(들) 관련 제120항에  
명시된 바와 같이 또는 미합중국을 지정하는 PCT 국제 출원 관련  
제365(c)항에 명시된 바와 같이 자기 출원의 출원을 요구합니다. 이  
출원서에 있는 각 특허 청구의 내용이 미합중국 고드인 제35 장  
제112항의 첫번째 절에서 명시된 바와 같이 출원의 미국 또는 PCT  
국제 출원에 발표되지 않았으면 본원은 연방 규정 고드인 제37 장  
제1.56항에 명시된 바와 같이 출원 출원일자 및 이 출원서의 국어 또는  
PCT 국제 출원일자 사이에 특허 지적에 대한 자료 정보를 공개할  
의무를 인정합니다.

(Application No.)  
(출원 번호)

(Filing Date)  
(출원일자)

(Application No.)  
(출원 번호)

(Filing Date)  
(출원일자)

본인이 아는 한도 내에서 여기에 제출된 모든 내용이 사실이고, 제출된  
정보나 초안이 모두 사실임을 확인하며, 더 나아가 미합중국 고드인  
제18 장의 제1.001절에 명시된 바와 같이 고도의 허위 진술 및 이와  
유사한 명백한 허위 진술이나 부당한 처법 만거나 부당한 감응을 모두 받은  
유고 있고 이러한 고도의 허위 진술은 특허 출원이나 후에 발급된 특허의  
유효성을 위태롭게 할 것을 인정하면서 여기에 진술함을 선언합니다.

I hereby claim foreign priority under Title 35, United States Code,  
§ 119(a)-(d) or § 365(b) of any foreign application(s) for patent or  
inventor's certificate, or § 365(a) of any PCT International  
application which designated at least one country other than the  
United States, listed below and have also identified below, by  
checking the box, any foreign application for patent or inventor's  
certificate, or PCT International application having a filing date  
before that of the application on which priority is claimed.

16/09/1999  
(Day/Month/Year Filed)  
(출원일자 일/월/년)

☐

(Day/Month/Year Filed)  
(출원일자 일/월/년)

☐

I hereby claim the benefit under Title 35, United States Code,  
§ 119(e) of any United States provisional application(s) listed  
below.

I hereby claim the benefit under Title 35, United States Code,  
§ 120 of any United States application(s), or § 365(c) of any PCT  
International application designating the United States, listed  
below and, insofar as the subject matter of each of the claims of  
this application is not disclosed in the prior United States or PCT  
International application in the manner provided by the first  
paragraph of Title 35, United States Code, § 112, I acknowledge  
the duty to disclose information which is material to patentability  
as defined in Title 37, Code of Federal Regulations, § 1.56 which  
became available between the filing date of the prior application  
and the national or PCT International filing date of this application.

(Status) (patented, pending, abandoned)  
(현상) (특허 획득, 출원중, 포기)

(Status) (patented, pending, abandoned)  
(현상) (특허 획득, 출원중, 포기)

I hereby declare that all statements made herein of my own  
knowledge are true and that all statements made on information  
and belief are believed to be true; and further that these  
statements were made with the knowledge that willful false  
statements made to file an application for a patent under Title 35 of the  
United States Code or both, under Section 101 of Title 18 of the  
United States Code and that such willful false statements may  
jeopardize the validity of the application of any patent issued  
thereon.

Priority Not Claimed  
우선권 주장 없음

# Korean Language Declaration

위원관: 지명된 발명자로서 본인은 이 특허를 출원하고 이와 관련된 특허  
출력 및 검토장이 요구하는 정보를 처리하기 위하여 하기 변호사(들)  
명/또는 대리인(들)을 임명합니다. (성명 및 등록번호 기입)

POWER OF ATTORNEY: As a named inventor, I hereby  
appoint the following attorney(s) and/or agent(s) to prosecute  
this application and transact all business in the Patent and  
Trademark Office connected therewith: (first name and  
registration number)

서신 수신자

Sand Correspondence to:

지동 전화 수신자: (성명 및 전화번호)

Direct Telephone Calls to: (name and telephone number)

단독 또는 첫번째 발명자의 성명	1-08	Full name of sole or first inventor	SEO, Young=Don
발명자의 서명	임자	Inventor's signature	Signature Date 25/02/2002
거주지		Residence	Kyungki-do, Korea K.R.X
국적		Citizenship	Republic of Korea
우송 주소		Post Office Address	Woosung Apt., 102-1502,
			Kyungki-do, Republic of Korea
만약 있으면 두번째 공동 발명자의 이름		Full name of second joint inventor, if any	
두번째 발명자의 서명	임자	Second inventor's signature	Date
거주지		Residence	
국적		Citizenship	
우송 주소		Post Office Address	

(세번째 그리고 다음의 공동 발명자들에 대한 유사한 정보와  
그들의 서명을 제공하십시오.)

(Supply information and signature for third and subsequent joint  
inventors.)